

Appl. No. : **Unknown**
Filed : **Unknown**

a detector;

a substrate carrying the at least one emitter and detector; and

an optical obstruction between the emitter and said detector which reduces light piping between said emitter and said detector when said optical probe is affixed to a portion of a patient.

9 23. (New) The optical probe of Claim 22, further comprising a flexible backing supporting said flexible circuit, said flexible backing adapted to affixed said optical probe to said medium.

10 24. (New) An optical sensor for use in physiological monitoring comprising;
at least one emitter;
a detector;
a substrate carrying said emitter and said detector; and
an optical barrier between the emitter and detector to substantially obstruct radiation from transmitting along the substrate between said emitter and said detector without having passed through a portion of the patient when said sensor is affixed to a patient.

11 25. (New) The optical sensor of Claim 24, wherein said obstruction comprises an aperture in said substrate between the emitter and the detector.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

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Dated: July 3, 2001

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